A METHOD AND SYSTEM FOR PROCESSING COMMUNICATIONS PACKETS ACCORDING TO EVENT LISTS

ABSTRACT OF THE INVENTION

In an embodiment of the present invention, a first communication packet is assigned to a first communication data structure that is unique to a first connection comprising the first communication packet. A first event list is selected from a database based on a classification of the first communication packet. The first event list identifies a first plurality of communication modules (e.g., socket layer, TCP layer, IP layer, IP security layer, firewall layer, etc.) and an ordering thereof, specific for the needs of the first connection. The first communication packet is processed through the first plurality of communication modules based upon the ordering specified in the first event list. A reference contained in the data structure marks the current packet position though the plurality of communication modules.